

Amendment After Final Rejection
Serial No. 09/763,843

Docket No. PHN17,510

IN THE CLAIMS:

Kindly replace the claims of record with the following full set of claims:

1. (Previously presented) A CDMA communication system comprising:
at least one primary station (2) and a plurality of secondary stations (4), the primary station (2) and the secondary stations (4) exchanging CDMA signals (18) via a communication medium (6), the secondary stations (4) each comprising:
a modulator (10) for modulating a respective data signal (16) with a respective code word (14) in order to obtain a respective CDMA signal (18), the modulator being embodied so as to modulate the respective data signal (16) with an initial code word until synchronization with the primary station (2) is obtained, the modulator (10) being further embodied so as to modulate the respective data signal (16) with a respective final code word after synchronization with the primary station (2) has been obtained, wherein the initial code word is substantially orthogonal to the final code words for every possible time shift of the initial code word.
2. (Previously presented) The CDMA communication system according to Claim 1, wherein all symbol values of the initial code word are equal to each other.
3. (Previously presented) The CDMA communication system according to Claim 1, wherein the code words (14) are Walsh-Hadamard codes and that the initial code word corresponds to the first row or the first column of the Walsh-Hadamard matrix.

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4. (Previously presented) A secondary station (4) for exchanging CDMA signals (18) via a communication medium (6) with at least one primary station (2), the secondary station (4) comprising:

a modulator (10) for modulating a data signal (16) with a code word (14) in order to obtain a CDMA signal (18), the modulator (10) being embodied so as to modulate the data signal (16) with an initial code word until synchronization with the primary station (2) is obtained, the modulator (10) being further embodied so as to modulate the data signal (16) with a final code word after synchronization with the primary station (3) has been obtained, wherein the initial code word is substantially orthogonal to the final code word for every possible time shift of the initial code word.

5. (Previously presented) The secondary station (4) according to Claim 4, wherein all symbol values of the initial code word are equal to each other.

6. (Previously presented) The secondary station (4) according to Claim 4 wherein the code words (14) are Walsh-Hadamard codes and that the initial code word corresponds to the first row or the first column of the Walsh-Hadamard matrix.

7. (Previously presented) A method of synchronizing a secondary station (4) with a primary station (2), the primary station (2) and the secondary station (4) exchanging CDMA signals (18) via a communications medium (6), the method comprising the steps of:

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modulating a data signal (16) with an initial code word (14) in order to obtain an initial CDMA signal (18) and transmitting the initial CDMA signal (18) to the primary station (2) until synchronization with the primary station (2) is obtained,

modulating the data (16) with a final code word (14) in order to obtain a final CDMA signal (18) and transmitting the final CDMA signal (18) after synchronization with the primary station (2) has been obtained,

wherein the initial code word is substantially orthogonal to the final code word for every possible time shift of the initial code word.

8. (Currently amended) The method of synchronizing a secondary station (4) with a primary station (2) according to Claim 7, wherein [[al]] all symbol values of the initial code word are equal to each other.

9. (Previously presented) The method of synchronizing a secondary station (4) with a primary station (2) according to Claim 7 wherein the code words are Walsh-Hadamard codes and that the initial code word corresponds to the first row or the first column of the Walsh-Hadamard matrix.